Applicants: Finkelstein et al. ZRI-032
Serial No.: To Be Assigned Filed: Herewith
For METHODS AND APPARATUS FOR
CROSS-TALK AND HTTER REDUCTION IN
MULTI-BEAM OPTICAL DISKS
Sheet 1 of 9

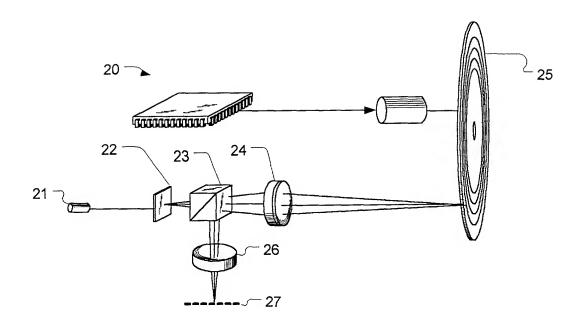


FIG. 1

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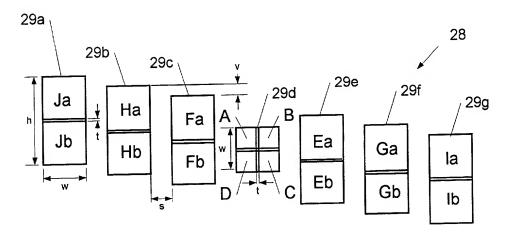


FIG. 2A

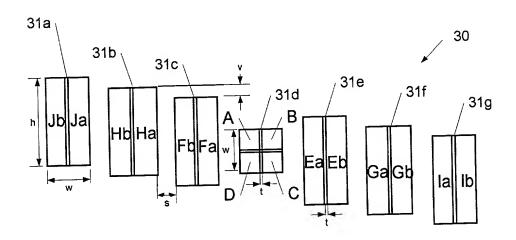


FIG. 2B

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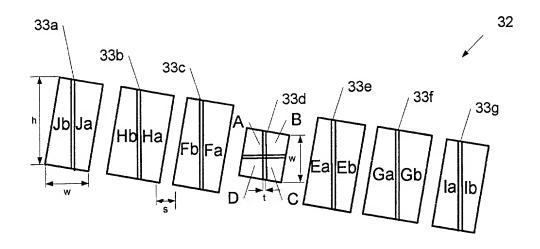
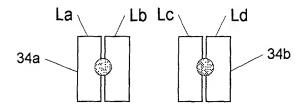


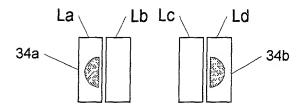
FIG. 2C

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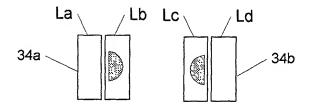
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Disk in focus



Disk close to objective lens

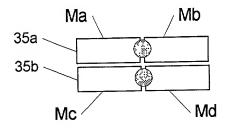


Disk far from objective lens

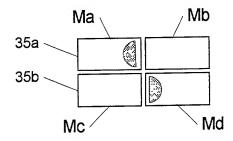
FIG. 3A

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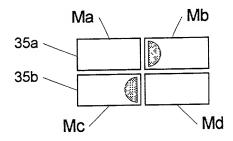
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Disk in focus



Disk close to objective lens



Disk far from objective lens

FIG. 3B

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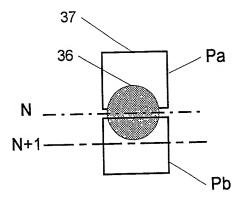


FIG. 4

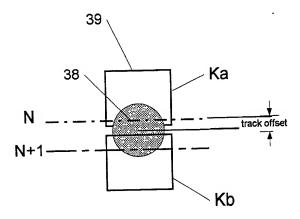


FIG. 5A

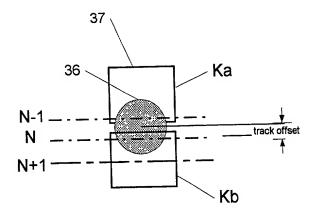
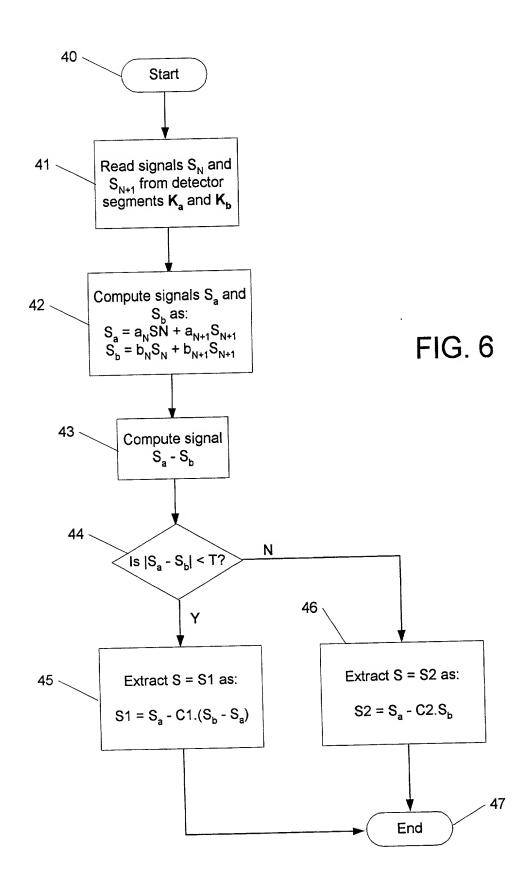


FIG. 5B





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Track Offset (% of track pitch)	No split detectors, no cross-talk cancellation	Split detectors, no cross-talk cancellation	No split detectors, with cross-talk cancellation	Split detectors with cross-talk cancellation
0	6.2	6.8	6.2	5.4
7	6.7	6.4	6.1	5.2
14	9.9	6.6	6.6	5.3
21	16.5	6.25	7.8	5.4
29	23.9	5.9	12.5	5.9

FIG. 7

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Track Offset (% of track pitch)	Coefficient C1 (cross-talk cancellation algorithm 1)	Coefficient C2 (cross-talk cancellation algorithm 2)
0	-0.45	-1
7	-0.32	-0.47
14	-0.21	-0.25
21	-0.1	-0.12
29	0.005	-0.005
36	0.1	0.1
43	0.26	0.21
50	0.4	0.29

FIG. 8

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Track Offset (% of track pitch)	RMS Ratio (cross-talk cancellation algorithm 1)	RMS Ratio (cross-talk cancellation algorithm 2)
0	0.99	1.99
7	0.95	1.41
14	0.95	1.19
21	0.97	1.08
29	1	1
36	1.06	0.95
43	1.15	0.91
50	1.22	0.87

FIG. 9